

ABSTRACT

The present invention is to provide a process for preparing a chiral ester expressed in formula 100 by reacting;

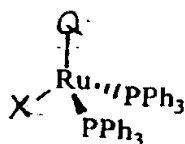
a racemic alcohol of formula 4;

5 a ruthenium complex selected from the group consisting of compounds 1, 2, and 3 expressed in formulas 1, 2, and 3 to activate racemization of said racemic alcohol;



a lipase to acylate one enantiomer selectively from said racemic alcohol;

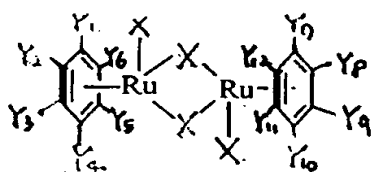
and

10 an acyl donor compound to supply acyl group to said lipase,



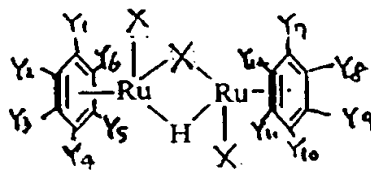
(1)

wherein Q is  or ; and X is Br, Cl or I;



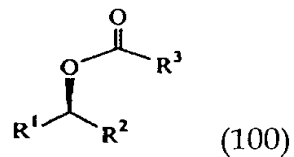
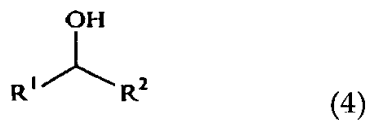
(2)

wherein Y₁, Y₂, Y₃, Y₄, Y₅, Y₆, Y₇, Y₈, Y₉, Y₁₀, Y₁₁, and Y₁₂ are independently a hydrogen atom or C₁-C₅ alkyl group; and X is Br, Cl or I;



(3)

20 wherein Y₁, Y₂, Y₃, Y₄, Y₅, Y₆, Y₇, Y₈, Y₉, Y₁₀, Y₁₁, and Y₁₂ are independently a hydrogen atom or C₁-C₅ alkyl group; and X is Br, Cl or I; and



wherein R¹, R² and R³ are, independently, optionally substituted alkyl,
5 optionally substituted aryl or optionally substituted cycloalkyl group and R¹
and R², R¹ and R³, and R² and R³ can be cyclized each other, where said
substituent of alkyl, aryl and cycloalkyl is a hetero atom such as a halogen atom
and a cyano group.